

Figure 1

Start

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200 Access Panel Closed And Electronic Circuit is Open

210

Access Panel Opens, Causing Two Electrical Contacts to Connect, Thus Closing Electronic Circuit

220

Closed Electronic Circuit Indicates That Access Panel is Open And Temperature Controlled Compartment is Being Accessed

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230
Access Panel Closes, Causing
Two Electrical Contacts to
Disconnect, Thus Opening
Electrical Circuit

240

Open Electrical Circuit Indicates That Access Panel is Closed And Temperature Controlled Compartment is Not Being Accessed

Figure 2

Start 300 First Access to Temperature **Controlled Compartment** Detected Figure 3 310 Timer Initiated 330 Yes 320 Second Access to Temperature Controlled Compartment is Not Made Has Time Interval Expired? Within Time Interval of First Access to Temperature Controlled Compartment No 340 Is Second Access to Temperature Controlled Compartment Made? Yes 350 Second Access to Temperature Controlled Compartment is Made Within Time Interval of First Access to **Temperature Controlled Compartment** 360 Second Access Re-Designated as First Access

Start

400
Patient Directed to Take Medication a Number, N, Times Each Day

410
Amount of Time Available for Taking Medication is Divided By N-1 to Determine Time Interval

Figure 4

Start

500
Minimum Desired Level of Medication in Patient's System Set

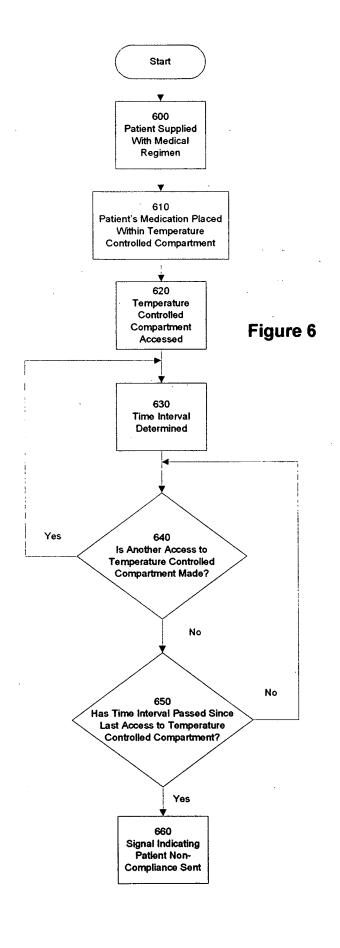
510 Dose Level Determined

520 Patient's Physical Characteristics Determined

530
Predicted Rate at Which Medication
Level Will Fall Given Patient's Physical
Characteristics Determined

540
Predicted Rate Data Used to Compute
Time Interval Such That Level of
Medication in Patient Does Not Fall
Below Desired Level of Medication

Figure 5



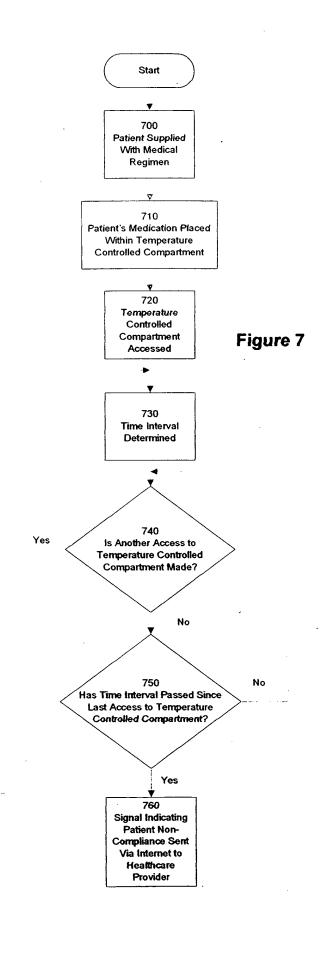
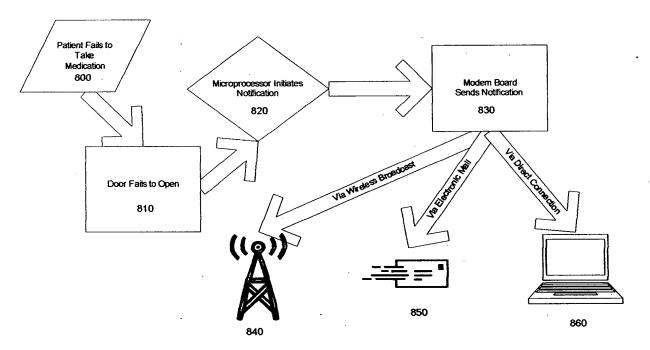
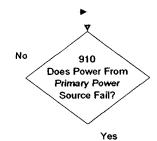


Figure 8



Start

900
Patient Compliance Monitoring
System, Including Temperature
Controlled Compartment, Supplied
With Power by Primary Power Source



920
Power Supplied to Patient
Compliance Monitoring
System by Secondary Power
Source

930 Signal Sent to Indicate Failure of Primary Power Source

Figure 9

Figure 10

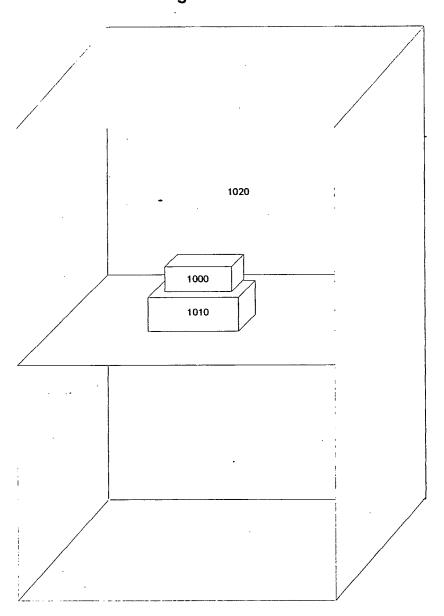


Figure 11

